

MARKET FOOTPRINT GREENBUDDIES

Professional services for Solar plants
2Q 2021



Free field installations

Typical scope of works:

Engineering, Procurement & Construction

Complete – Mechanical II + Electrical I
(including other elements such as transformer, fence, engineering, geotests, connection to the grid, commissioning etc.)

Complete – Mechanical II + Electrical I

Electrical II – Mechanical I/II + Electrical I

Electrical I – DC side of electrical works

Mechanical II – Mechanical I + ramming
(pre-drill if req.)

Mechanical I – mounting system and modules

COMPLEXITY

Selected references - free field

Size & type	Photo	Location	Date
71 MWp		Kristalpark (BE)	02/19
45 MWp		Netherlands <exact location not allowed to disclose>	06/20
33 MWp		Molenwaard	03/20
15,6 MWp		Baraize	03/21
14,4 MWp		Kerkrade	06/21
13,7 MWp		Foxhol	03/21
12,4 MWp		Rottenbach II	01/20
11,7 MWp		Farmsun	03/21
11,7 MWp		Achtkarspelen	02/19









Size & type	Photo	Location	Date
10,1 MWp		Netherlands <exact location not allowed to disclose>	09/20
8,9 MWp		Lochem	10/19
8,6 MWp		Wornitzhofen	01/18
8,5 MWp		Moerdijk	03/21
7,6 MWp		Andijk	17/18
7,5 MWp		Dordrecht (NL)	11/18
6,4 MWp		Bovenveld	09/20
6,3 MWp		Kleine Rheide	01/18
6,3 MWp		Osterberg	01/20









Selected references - free field

Size & type	Photo	Location	Date
6 MWp	 Illustrative picture	Netherlands <exact location not allowed to disclose>	12/20
5,7 MWp		Geslau	11/20
5,2 MWp		Malta	05/20
5 MWp		Burgum	09/17
5 MWp	 Illustrative picture	Goes	12/20
4,3 MWp		Tegelen	09/20
3 MWp		Wriezen	06/21
2,4 MWp		Malta	12/19
2,3 MWp		Klausen	10/20

Size & type	Photo	Location	Date
2,3 MWp		Fehrbellin	06/21
1 MWp		Grenna	12/17
1,5 MWp		Bad Abdach	06/18
1,3 MWp		Dodewaard	06/20
1,3 MWp		Eibisch	09/20
1 MWp	 Illustrative picture	Haag Gutenstetten	04/20
1 MWp		Hassenlohe	04/21
0,85 MWp		Malta II	08/20
0,75 MWp		Lulea (SWE)	10/18


Selected references - free field

Size & type	Photo	Location	Date
0,75 MWp	 Illustrative picture	Brodswinden I.	11/20
0,75 MWp		Talinn (EST)	11/18
0,75 MWp		Reesberg	07/20
0,75 MWp		Mammendorf West	12/18
0,75 MWp		Mammendorf Ost	12/18
0,75 MWp		Gorgast	09/20
0,75 MWp		Hattenhofen	12/18
0,75 MWp		Mahlwinkel	02/19

Size & type	Photo	Location	Date
0,75 MWp	 Illustrative picture	Dingolfing	05/19
0,75 MWp		Neustadt Dosse	03/19
0,75 MWp		Kamenz	03/21
0,75 MWp	 Illustrative picture	Brodswinden II.	03/21
0,75 MWp		Wölfersheim	06/19
0,75 MWp		Bernardswinden	05/18
0.7 MWp		Malta - Gozo	04/21
0.65 MWp		Haaren	12/20

Selected references - free field

Size & type	Photo	Location	Date
0,40 MWp		Regensburg	11/17
0,35 MWp		Freigung	07/20

Size & type	Photo	Location	Date
0,25 MWp		Vossemer	05/21

Total freefield up to 06/2021: over 387 MWp

Rooftop installations

Roof:

Flat

Pitched – single/double

Fixing:

TS - minirails

RH – roof hooks

HB – hanger bolts

Roof covering:

Trapezoidal metal sheet

Eternit

Foliendach – foil roof

Fiber cement sheet

Corrugated sheet

Other scope to be delivered based on discussion:

- e.g. possible installations of transformer, Engineering
- other roof coverage

Selected references – rooftops

Size & type	Photo	Location	Date
7900 kWp - greenhouse		Netherlands <exact location not allowed to disclose>	06/21
4300 kWp – trapezoidal + bitumen roof (set)		Arnhem	03/21
2795 kWp - PVC		Ingram	01/20
1745 kWp - PVC		Fri-Jado	01/20
1316 kWp – trapezoidal sheet		Pritzwalk/ Dollen	03/19
1120 kWp – trapezoidal sheet		Rostock	01/18
999 kWp – trapezoidal sheet		Hamburg	01/18
957 kWp – flex roof		Eindhoven	09/20
950 kWp – bitumen roof		Traun	12/19

Size & type	Photo	Location	Date
854 kWp – trapezoidal sheet		Heerenveen Stadium	06/20
800 kWp – PVC		Boeckel	03/19
790 kWp – bitumen roof		Alkmaer	01/18
780 kWp – eternit & trapezoidal sheet		Kams	06/20
750 kWp - greenhouse		Gartnerei Seelow	02/19
750 kWp – trapezoidal sheet		Hohendosleben	07/19
750 kWp – trapezoidal sheet		Bergen	07/19
750 kWp – trapezoidal sheet		Banzin	07/19
750 kWp – trapezoidal sheet		Dahre	05/20

Selected references – rooftops

Size & type	Photo	Location	Date
750 kWp – trapezoidal sheet		Criwitz	10/20
750 kWp – trapezoidal sheet	 Illustrative picture	Weilheim	12/20
750 kWp – trapezoidal sheet		Pristablich	05/20
730 kWp – trapezoidal sheet		Erfurt I.	09/19
711 kWp – flex roof		Amsterdam	10/20
693 kWp – foil roof		7x Lidl Roof	11/18
650 kWp – trapezoidal sheet		Gumtow I.	09/18
650 kWp – trapezoidal sheet		Erfurt II.	09/20
645 kWp – trapezoidal sheet		Satow	10/20

Size & type	Photo	Location	Date
603 kWp – trapezoidal sheet		Ede	06/20
600 kWp – trapezoidal sheet		Gielow	05/19
595 kWp – flat roof		Berg Toys	02/19
590 kWp – cement fiber		Vierow	11/17
553 kWp – trapezoidal sheet		Moorsterweg	08/20
540 kWp – trapezoidal sheet		Sporheer Heerenveen	05/20
540 kWp – trapezoidal sheet		Skeelerbaan	08/20
530 kWp – trapezoidal sheet		Rostock	08/18
530 kWp – trapezoidal sheet		Gumtow II.	10/18

Selected references – rooftops

Size & type	Photo	Location	Date
530 kWp – trapezoidal sheet		Autoglass	11/18
527 kWp – eternit		Huigenbosch	07/20
520 kWp – trapezoidal sheet		Neugattersleben I.	07/19
520 kWp – trapezoidal sheet		Zernitz	11/19
482 kWp – flat roof		Leeuwarden	10/19
480 kWp – flat roof		Helmond	11/19
455 kWp – foil roof		Borås	06/21
445 kWp – trapezoidal sheet		Wismar	11/17
412 kWp – eternit roof		Levitzow	02/19

Size & type	Photo	Location	Date
400 kWp – trapezoidal sheet		Rostock II.	11/17
365 kWp – trapezoidal sheet		Lindenberg	10/20
340 kWp – trapezoidal sheet		Linde	12/19
320 kWp – flat roof		Amsterdam	11/19
311 kWp trapezoidal sheet		Erdmann	09/19
309 kWp – flat PVC roof		Maarheeze II.	7/19
309 kWp trapezoidal sheet		Kritzkow	12/19
300 kWp trapezoidal sheet		Kiefhaber	07/18
288 kWp - bitumen roof		Elmenhorst	03/19

Selected references – rooftops

Size & type	Photo	Location	Date
286 kWp - flat roof		Maarheeze	06/19
284 kWp trapezoidal sheet		Neugattersleben II.	11/19
283 kWp – hanger bolts		Bad Oldesloe	11/19
275 kWp trapezoidal sheet		Reimershagen I.	09/19
270 kWp – trapezoidal sheet		Ede II.	11/20
260 kWp trapezoidal sheet		Reimershagen II.	07/18
260 kWp trapezoidal sheet		Fehrbellin	11/18
255 kWp – foil roof		Rånäs	06/21
250 kWp – foil roof		Hägersten	06/21

Size & type	Photo	Location	Date
250 kWp trapezoidal sheet		Charleroi	01/21
240 kWp trapezoidal sheet		Hundertmark	09/18
202 kWp trapezoidal sheet		Ninove	01/20
200 kWp trapezoidal sheet		Ahrensfelde	02/19
194 kWp – foil roof		Bramstedt	01/19
194 kWp – TS/HB/RH		Auerbach	03/19
177 kWp – carport structure		Almere	06/21
173 kWp – flat roof		Baars & Kraan	11/19
164 kWp – fiber cement roof		Bayereuth	10/18

Selected references – rooftops

Size & type	Photo	Location	Date
160 kWp – trapezoidal sheet		Walsleben	10/18
138 kWp – fiber cement roof		Kiefhaber II.	01/19
128 kWp – trapezoidal sheet		Fries	06/18
124 kWp – bitumen roof		Haje Zurich and Nunspeet	01/20
121 kWp - trapezoidal sheet		Großmehring	02/21
120 kWp – trapezoidal sheet		Preymesser	06/21
106 kWp – PVC		Juterborg & Drogi	03/19
105 kWp – trapezoidal sheet		Karcheez	08/18
105 kWp – trapezoidal sheet		Sagemann	01/19

Size & type	Photo	Location	Date
100 kWp - trapezoidal sheet		Wulkow	02/19
100 kWp – flat roof		Most	08/19
100 kWp – trapezoidal sheet		Holzberg	07/20
100 kWp - PVC		Budel	08/20
100 kWp – foil roof		Kungsängen	06/21
97 kWp – trapezoidal sheet		Humuswerke	01/19
94 kWp - trapezoidal sheet		Dietl	04/18
90 kWp – roof tiles		Mülheim	03/19
85 kWp – trapezoidal sheet		Neurupin	05/20

Selected references – rooftops

Size & type	Photo	Location	Date
78 kWp – trapezoidal sheet		Geslau	03/20
68 kWp – trapezoidal sheet		Verhoeven Ninove	12/19
66 kWp – trapezoidal sheet		Lengede	01/20

Size & type	Photo	Location	Date
65 kWp – hanger bolts		Coppenbrughe	12/19
58 kWp – trapezoidal sheet		Heerenveen	10/20
50 kWp – flat roof		Kerkstraat	10/19







Total rooftops up to 6/2021: over 55 MWp

Selected references - O&M

Date	Photo	Location	Scope
02/18		Leipzig	Fixing of cable trays
03/18		Brandenburg	Inspection of the invertors and strings
03/18		Kaiserlautern	Antithief-solution
05/18		Regensburg	Repowering: Change of panels + inspection
05/18		Leipzig	Repowering of 1000 panels + change of another 1000 panels
07/18		Bayern	Repowering: Change of 700 panels + inspection
08/18		Weimar	Sample electroluminescence analysis
09/18		Augsburg	Inspection of 4.8 MW rooftop installation
11/18		Eckolstaedt	Repowering of 2.2 MW
04/19		Birkig + Neufahrn	Repowering

Date	Photo	Location	Scope
07/19		Augsburg	Repowering
07/19		Doberschutz	Repowering – 25000 module exchange
07/19		Hemau	Repowering
09/19		Aichach	Repowering
10/19		Eckolstaedt	Repowering
11/19		Hamburg	PV module check
12/19		Demmin	Repowering
01/20		Sonnen	Repowering
04/20		Nurnberg - Biederbach	Repowering
07/20		Altenburg	Repowering

Selected references - O&M

Date	Photo	Location	Scope	Date	Photo	Location	Scope
08/20		Vierow	Repowering	10/20		Schwedt	Repowering
09/20		Etup + Strasskirchen	Repowering	09/20		Altenburg 3	Repowering
10/20		Hoyerswerda	Repowering	04/21		Neufahren	Repowering

List of selected Reference Projects in EV Charging

Typical scope of works:

Solution Design

Project Management

Procurement

Civil Works

Technology Installation and Commissioning















Mounting of Structures and PV Modules

Electrical Works








Installation of Battery Storage Systems








Service & Maintenance

Selected references – EV Charging

Date	Photo	Location	Scope	Date	Photo	Location	Scope
12/16		Praha, Kladno, Vrchlabí, H. Králové	Installation and connection of ABB 50 kW charging stations	06/18		Písek	Construction of foundations and connections of ch. stations ČEZ a.s.
09/17		Praha, Toužim	Installation and connection of ABB 50 kW charging stations	07/18		Hlinsko	Construction of foundations and connections of ch. stations ČEZ a.s.
05/17		Praha - Radotín	Installation and connection of charging stations ABB 50 kW	10/18		Most, Hlinsko, Hradec n. Svitavou	Construction of foundations and connections of ch. stations ČEZ a.s.
10/17		Písek, Pardubice	Installation and connection of charging stations ABB 50 kW	10/18		Most	Construction of foundations and connections of ch. stations ČEZ a.s.
05/18		Rousínov	Installation and connection of charging stations ABB 50 kW	10/18		Mladá Boleslav	Construction of foundations and connections of ch. stations ŠKO-ENERGO s.r.o.
05/18		Praha - Čakovice	Construction of foundations and connections of ch. stations E.ON	11/18		Kvasiny, Vrchlabí	Construction of foundations and connections of ch. stations ŠKO-ENERGO s.r.o.
06/18		Praha - Zličín	Construction of foundations and connections of ch. stations E.ON	12/18		České Budějovice, Přeštice, Ostrov	Installation and connection of charging stations ABB 50 kW

Selected references – EV Charging

Date	Photo	Location	Scope
01/19		Hradec Králové, Trutnov	Installation and connection of charging stations ABB 50 kW
04/19		Motorest Naháč D1	Construction of foundations and connections of ch. stations E-ON Česká republika s.r.o.
05/19		Domažlice	Construction of foundations and connections of ch. stations ČEZ a.s.
05/19		Brno	Construction of foundations and connections of fast charging stations 50 kW
06/19		Kolín	Construction of foundations and connections of ch. stations ČEZ a.s.
07/19		Siřejovice	Construction of foundations and connections of ch. stations ČEZ a.s.
09/19		Praha	Construction of foundations and connections of ch. stations E.ON.

Date	Photo	Location	Scope
06/20		Praha - Lhotka	Installation and connection of charging stations Engie Services, a.s.
08/20		Mladá Boleslav	Construction of foundations and connections of ch. stations ŠKODA AUTO s.r.o.
10/20		Bratislava	Installation and connection of new charging station ALZA showroom
11/20		Mladá Boleslav	Construction of foundations and connections of ch. stations ŠKO-ENERGO s.r.o.
02/21		Praha	Construction of foundations and connections of ch. stations NH Car Praha
04/21		Nupaky, Jihlava	Service intervention on Tritium DC charger integrated in IONITY pan-European network of superfast chargers.
06/21		Holzkirchen Süd, Sangerhausen, Hohenwarsleben	Service intervention on Tritium DC charger integrated in IONITY pan-European network of superfast chargers.

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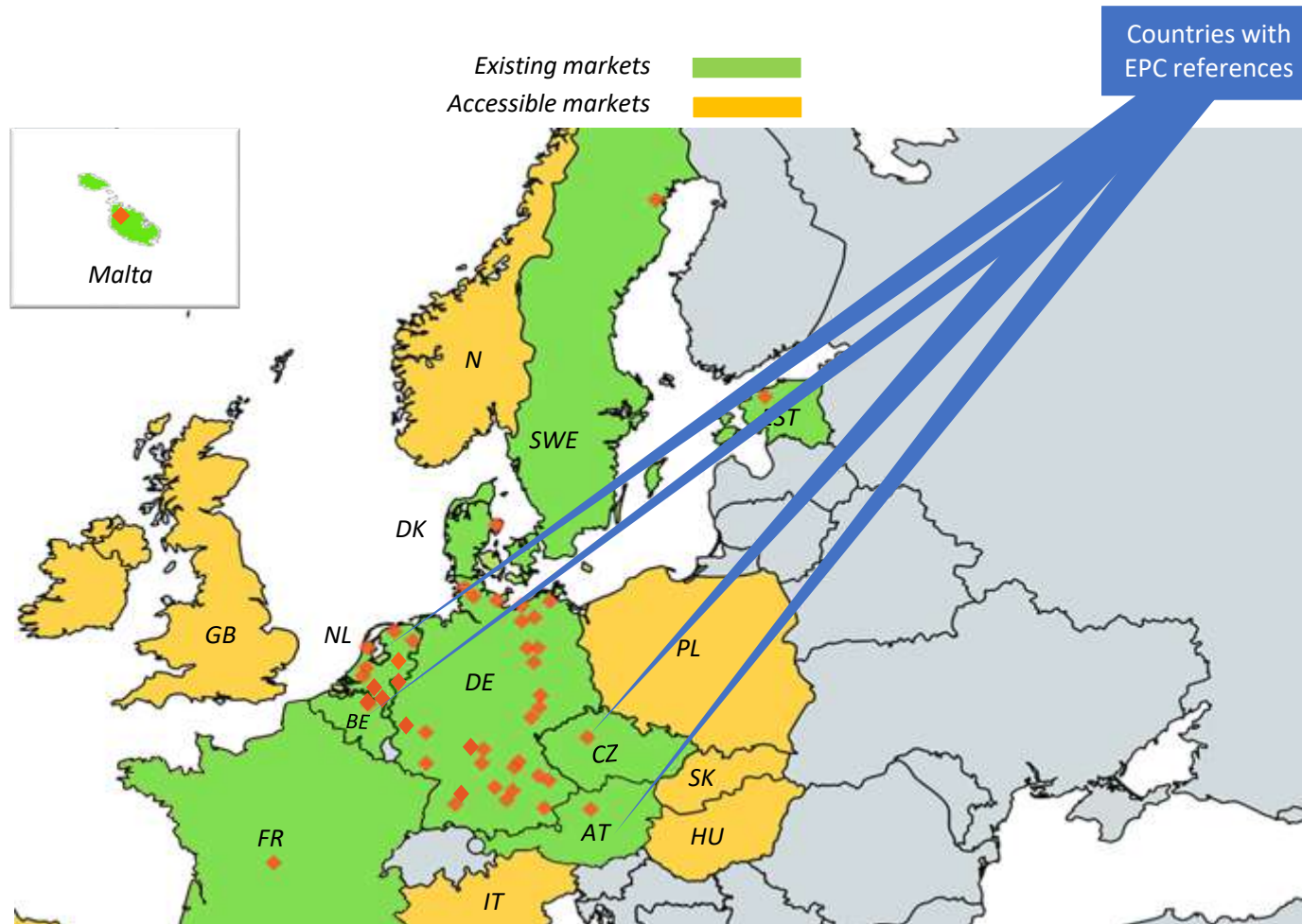
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Greenbuddies project locations 2017 - 2021



Greenbuddies complete references consist around 442 MWp of PV plants delivered since 11/2017



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